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NATIONAL LIBRARY OF MEDICINE
NEWS

Vol. XXVII, No. 1 Bethesda, Maryland 20014 January 1972

APR 2 - 73
THE JOHN CRERAR LIBRARY

Regents Approve AAMC Recommendations

Mrs. Bernice Hetzner, new Regent

The Board of Regents of the National Library of Medicine, at its third and final meeting of the year, held in Bethesda on November 22-23, took the first formal step in implementing recommendations of the March 1971 report of the Association of American Medical Colleges to expand the development of a biomedical communications network. The eventual goal will be to produce "educational methods which will render obsolete the current systems of libraries, textbooks, medical school curricula, and total dependence on memory and pattern recognition in clinical decision-making and problem-solving."

Four recommendations presented by a priority review committee, appointed by the Board to study the AAMC report, were adopted unanimously by the Regents. The recommendations, as presented by the committee, stated:

"1. The Board of Regents should initiate and maintain a continuing interest in the development of manpower for computer applications in medicine. The Regents are urged to assert a leadership role in this area, and to seek support both in and outside of government.

"2. The committee advocates the organization of a biomedical communications network fundamentally conceived as providing the mechanism by means of which inter-institutional cooperation and sharing of resources will be used to meet some of the needs of medical education and medical practice.

Dr. Angelo May, new Regent

"3. The committee advocates the development of multimedia free-standing information modules designed to permit manipulation by individual faculty members in their presentation of a floor curriculum for the health sciences.

"4. The National Library of Medicine should accept the national responsibility for indexing and cataloging appropriate health science learning resource information material not published in journals and monographs. This indexing and cataloging should be limited to selected materials such as audiovisuals, multimedia presentations, and computer-aided instructions which meet published criteria."

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
National Institutes of Health

NATIONAL LIBRARY OF MEDICINE
NEWS

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Published monthly by the Office of Public Information, National Library of Medicine, National Institutes of Health, for health science libraries, the health professions, and news media.

8600 Rockville Pike, Bethesda, Maryland 20014

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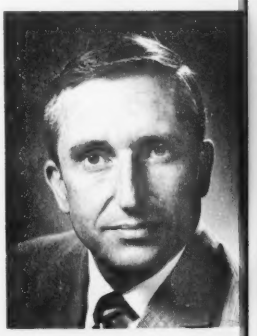
In his first meeting with the Board since being appointed top DHEW physician, Dr. Merlin K. DuVal, Assistant Secretary for Health and Scientific Affairs, reviewed current planning and legislative programs relating to the Library, which he called "one of the critical arms of the Department in biomedical communications." Dr. John F. Sherman, NIH Deputy Director, and Dr. Kenneth M. Endicott, Director of NIH Bureau of Health Manpower Education, also briefed the Regents. Four new members, Mrs. Bernice M. Hetzner and Drs. Susan N. Crawford, Stanley Marshall, and Angelo M. May, were presented certificates of their Presidential appointments by the Board chairman, Dr. William G. Anlyan.

In another action, the Board approved recommendations of the Biomedical Library Review Committee concerning medical library resource grants, and adopted modified policies governing the use of these funds (see page 8). Mr. Alfred R. Zipf, NLM consultant and former Regent, in reporting on a visit to Alaska with the NLM Director for a first-hand view of the satellite communications project, stated that agreement had been reached with University of Alaska and Public Health Service participants that medical transmission on the voice network would be monitored and taped whenever the system was in use. He described visits to several Alaska sites, including an inspection of the Native Health Service Clinic at Fort Yukon and the Alaska Health Sciences Library in Anchorage.

Dr. Susan Crawford, new Regent

Dr. Cummings, in briefing the Regents on NLM activities since their previous meeting, discussed the current development of MEDLINE, the activities of the various MEDLARS centers, and reviewed the foundation and programs of UNISIST. He also said that two U. S. physicians, recently returned from a trip to Mainland China, reported seeing copies of *Index Medicus* in two Peking medical libraries, but had found no Chinese scientific publications published later than 1968.

A member of the Board, Dr. George W. Teuscher, presented a resume of the history of dentistry, "A Profession Evolves," at a dinner session of the Regents. The next meeting of the Board will be held at the Library's National Medical Audio-visual Center in Atlanta on March 27-28, 1972.



Dr. Stanley Marshall new Regent

Price announced for 1971 Cumulated Index Medicus (Vol. 12): $84.00 ($92.25 foreign). Send order and remittance to the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402

NLM News Circulation Expanded

Beginning with this issue, the circulation of the National Library of Medicine *News* has been more than tripled by the addition of individual and institutional members of the Medical Library Association, Federal hospital libraries not previously included, and the editors of leading medical journals.

NLM Director Martin M. Cummings, in a guest editorial in the *Bulletin of the Medical Library Association* for January 1972, said he welcomed the opportunity "to reaffirm the National Library of Medicine's commitment to improve information services to the health professional." He said that all medical librarians should have "full knowledge" of the NLM's policies and programs.

"To reach the full MLA membership, we are revising the scope, coverage, and distribution of the *NLM News*," Dr. Cummings stated. "It has not been comprehensive enough and has reached only a segment of the medical library community." He told readers of the *MLA Bulletin* that "we will communicate directly to you on policy, new programs, and technological developments" and urged all MLA members "to approach NLM staff directly for details of programs and operational procedures." In the February issue, the *NLM News* will publish a list of the names, titles, and telephone numbers of the Library's key personnel.

In addition to current news stories, this issue contains a report from each of the Library's six service areas -- Library Operations, Specialized Information Services, National Medical Audiovisual Center, Computer and Engineering Services, Extramural Programs, and the Lister Hill National Center for Biomedical Communications. These reports will serve to introduce new readers to the Library's programs and services, and to indicate some of its goals for the coming months.

The *NLM News* is a descendent of the *Army Medical Library News Letter*, a mimeographed flyer first published in August 1945 and sent only to the Library's consultants. Three months later the publication was renamed the *News* and was printed by letter-press. In June 1952 it became the *Armed Forces Medical Library News*, and in October 1956 received its present name. This issue will be received by readers in all 50 states and Canada, and in 63 foreign countries.

First NLM Scholars in Residence Named

Two distinguished U. S. physicians, Drs. Fred L. Soper and Harry F. Dowling, have been appointed the first National Library of Medicine Scholars in Residence (Visiting Scholars) under a program established last June by the NLM Board of Regents. Under the provisions of their selection, both will spend a substantial part of their time for a period of at least six months in research that requires use of the Library's collections.

Since 1962, Dr. Soper, whose home is in Chevy Chase, Md., has been a special consultant to the Office of International Health of the Department of Health, Education and Welfare. A pioneer epidemiologist, he joined the Rockefeller Foundation in 1920, two years after his graduation from Rush Medical College, and served in South America, particularly in Brazil, for more than 20 years as regional director for yellow fever and hookworm disease control. From 1943 to 1946 he headed typhus and malaria control projects in Eygpt, Algeria, and Italy, and in 1961-62 established

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(Scholars in Residence, from Page 3)

the Pakistan-SEATO Cholera Research Laboratory. He was Director of the Pan American Sanitary Bureau in 1947-49 and of the WHO Regional Office for the Americas in 1949-59. The recipient of numerous awards, honorary degrees, and foreign decorations, his publications in the field of public health and epidemiology exceed a hundred titles.

Dr. Dowling, whose most recent book, *Medicine for Man: The Development, Regulation and Use of Prescription Drugs*, was published in 1970, has attained distinction for accomplishments in the field of infectious diseases and chemotherapy. He is a 1931 graduate of George Washington University School of Medicine, where, after graduate study at Johns Hopkins and Harvard, he began a successful career in teaching and clinical investigation. In 1951 he was named professor and head of the department of medicine at the University of Illinois College of Medicine, where he remained until 1969, when he accepted an appointment for two years as special assistant to the President of the University of Delaware. Dr. Dowling has served in numerous advisory and consultative capacities for both government and private health agencies. He was a member for ten years of the Council on Drugs of the American Medical Association, serving also as vice chairman and chairman, and since 1965 he has been a member of the Medical Advisory Board of the Food and Drug Administration. Since 1960 he has been editor of *DM: Disease-a-Month*. His many awards and honors include his selection as an NLM Health Sciences Scholar for 1966-67, and election as President of the Infectious Disease Society of America for 1965-66. Dr. Dowling has published four books, contributed to numerous others, and written more than 200 articles for professional journals. He lives in Great Falls, Va.

Broad Goals Set for Library Operations

The past year has seen the achievement of many goals set for Library Operations -- among them, publication of the eight-volume sexennial *Current Catalog*, incorporating all computer-stored citations for materials cataloged by the Library from 1965 through 1970; establishment of NLM catalog card service through BroDart; initial implementation of the MEDLINE network for on-line bibliographic searching; installation of a one-step, fully automated, positive-to-positive photostatic-process machine for improved service to NLM users; and increased speed of throughput time for interlibrary loans.

The appointment of Mrs. Erika Love (see page 9) as Deputy Associate Director of Library Operations inaugurates a year which promises further advances in providing information services to health science professionals. Mrs. Love, in her added capacity as Director of the Mid-Atlantic Regional Medical Library, will be responsible for the development and implementation of plans for expanded MAR activities. She will also represent the Library on committees of the National Libraries Task Force and the Federal Library Committee.

Index Medicus will include citations from 100 journals (to be listed in the January 1972 *Index Medicus*) added to the present group of journals indexed -- additions made possible because of increased indexing capability. These additions, as well as the culling of other journals, have been the result of, in part, the systematic review by subject experts of journals indexed overseas, and, in large

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part, the devoted efforts of the Committee on Selection of Literature for MEDLARS, composed of physicians, medical librarians, and medical editors notable for their active concern with the quality of primary and secondary biomedical publications.

The *Current Catalog* now incorporates an Audiovisual Section, first added in July 1971; in it are listed citations for materials cataloged at the Library's National Medical Audiovisual Center. January will see the appearance of a serials section incorporating all serial title entries -- newly cataloged or changed -- under both subject and name entries.

The Library proposes to expand the MEDLINE service (developed by the Lister Hill Center) in conformance with patterns being established for Regional Medical Library development. Current planning for MEDLINE calls for a two-phase approach.

The first phase, initially operative in mid-December 1971, consists mainly of Western Union service supplemented by leased phone lines. During this phase, local telephone access to the NLM computer will be available to all Regional Medical Libraries and MEDLARS centers, as well as a limited number of other institutions.

The second phase of implementation, scheduled to begin in February, will consist primarily of a backbone network supplied by TYMSHARE Corporation and supplemented by Western Union and leased telephone lines, with user access available through an additional number of cities.

Priorities and procedures for implementing the MEDLINE network, as well as further details of its operation, will be published during the coming months. The smaller AIM/TWX data base will be maintained on the computer in California until the end of 1972, to provide backup support for MEDLINE, and serve as an experimental base for implementing new capabilities in the ELHILL programs which operate both systems. Current AIM/TWX users will be maintained on that system until priorities shift them to MEDLINE.

Audiovisual Center Engaged in Cooperative Media Programs

Far from the National Library of Medicine, one of its major operating units in Atlanta is engaged, with medical educators and national professional organizations, in a cooperative program of creating instructional "teaching packages" for use by students in health professional schools. The National Medical Audiovisual Center, which was assigned to the jurisdiction of the Library in 1967, also shares its educational materials and provides broad consultative and reference services to health professionals and medical educators.

The cooperative media development program of the Center consists initially of peer evaluation of existing teaching materials, followed by the development and production of pilot instructional units. Medical students serve as subjects in testing the model, and the results often point the way to revisions and improvements. At present 20 students are learning portions of their anatomy course by audiovisual means. The "femoral triangle" self-study package was the first anatomical unit developed in a series that will include others devoted to the scap-

(Continued on Page 6)

(Audiovisual Center, from Page 5)

ular region and the forearm extensors. Teaching packages are also planned in ophthalmology, optometry, pediatrics, and obstetrics and gynecology.

In another program of cooperative media evaluation, the Center identifies and reviews specialized instructional materials to form a base of information for teachers and students. Among the many organizations involved in this program are the American Society of Anesthesiologists, American College of Radiology, and Association of Medical Pediatric Department Chairmen. One of the most active groups, the Association of Deans of Southern Medical Schools, has appointed a program director to monitor the production and testing of various instructional packages, beginning with a multimedia unit on the neurovascular examination.

A series of audiovisual workshop/seminars sponsored by the Center has drawn capacity attendance from faculty members in health science schools. This month the presentation was devoted to "Evaluation of Instructional Media in Medical Education" on January 17 and 18. The remaining sessions on the spring program include "Slide and Filmstrip Production Techniques," February 7-10; "Motion Picture Production Techniques," March 6-10; "Television in the Medical Environment," April 17-21 and repeated May 1-5; and "Learning Spaces," May 15-17.

Inquiries about the Center's various programs should be sent to the Director, National Medical Audiovisual Center, Atlanta, Georgia 30333.

Specialized Information Services Plans Three Publications

A unique and detailed index for the widely used 1969 Mrak Report has been compiled by NLM's Specialized Information Services for early publication. Officially titled "Report of the [HEW] Secretary's Commission on Pesticides and their Relation to Environmental Health," the 677-page paperback that has been a GPO "best-seller" is better known by the name of the Commission chairman, Dr. Emil M. Mrak, Chancellor Emeritus of the University of California at Davis.

Now partially in galley proof, the more-than-300-page index will resolve much frustration among scientists and students who consider the Commission's efforts a classic state-of-the-art report even without an index. The publication will include an introduction, separate chemical substance and subject indexes in alphabetical sequence with free-text entries by increasing pagination, and a compilation of bibliographic references indicating whether authors are listed or cited.

Specialized Information Services, which evolved as an important functional unit of the Library in 1967 following establishment of its Toxicology Information Program, is also participating in the production of two other health-related reference publications that will be available later this year.

A new monthly abstract journal, *Health Effects of Environmental Pollutants* (HEEP), will be published by BioScience Information Service with SIS support. Contents for the new serial will be selected from Biological Abstracts and the MEDLARS data bank of more 2,200 biomedical journals. Each issue will contain about 1,000 abstracts with both author and subject indexes. An ancillary magnetic tape service will

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(Specialized Information Services, from Page 6)

consist of complete bibliographic citations but without abstracts. A pilot issue will be released this month for review by a small number of consultants.

Physicians and pharmacologists especially will be interested in another new publication, *Drug Interactions: An Annotated Bibliography with Selected Excerpts (1967-1970)* that will highlight the interacting substances and the biological effects observed. Supported by a contract with Paul de Haen, Inc., the bibliography will contain about 12,000 drug interaction citations and 3,300 excerpts plus another 1,000 citations referring to *in vitro* studies, reviews, editorials and related articles. A drug or chemical interactants index, an interaction index and an authors' index will be included.

Lister Hill Center Investigates Satellite Communications, Interactive TV

The Lister Hill National Center for Biomedical Communications, established in 1968, provides a mechanism for the application of computer and communications technology to improve health care delivery, medical education, and biomedical research. The Center identifies new developments in communications technology and, in cooperation with health professionals, reviews and identifies needs which can be met by the application of such technology. Matching high priority needs with technological capabilities permits the Center to develop experimental services and evaluate their effectiveness.

In 1971, the Center demonstrated the utility of on-line bibliographic access in more than 60 hospitals, libraries, and medical research facilities. In addition to a voice link, the Center experimented with satellite communications for data, facsimile, and analog signals, and inaugurated a major project in Alaska to test this new communication modality as a means of providing valuable medical consultative services between native village health aides and physicians at Native Health Service hospitals. The Center continued evaluating an experimental, two-way TV link for patient care and medical education in Vermont and New Hampshire. Three other projects were directed toward cooperative development of multimedia educational materials to be shared by medical schools.

The Lister Hill Center has activated the experimental voice network in Alaska to ascertain the impact of reliable satellite communication on health care delivery and health education in remote villages. The ability of satellites to span vast expanses of ocean will be used to initiate a program in the Pacific Ocean area to investigate its usefulness in providing library, health education, and health care services to isolated territories. The use of cable communication as a means for educating health professionals in "neighborhood medicine" and in support of improved health care delivery in crowded urban areas will also begin this year.

The interactive television network between Dartmouth and the University of Vermont will become operational and experiments performed to quantify the usefulness of video data and combinations thereof to improve health care delivery and extend the expertise of specialists to remote learning and health care centers. Detailed planning is expected to define experiments and supportive equipment required to

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exploit the advanced ATS-F satellite capabilities. This will permit exploitation of the full range of communication techniques, including real-time interactive television, to alleviate such problems as the health professional shortage and education deficiencies in rural and isolated regions.

In conjunction with Library Operations, the Center plans to convert NLM's successful on-line bibliographic citation search and retrieval systems from experimental to operational status in order to provide broader coverage for the medical community. Network services will be expanded to incorporate a number of computers in university settings whose data bases can be accessed for instructional or diagnostic support. Further, following recommendations to act as a clearinghouse for biomedical computer applications, a survey of DHEW grantees is being made.

New Computer to Support On-Line Searching

Installation of an IBM 370/155 computer to support NLM's new interactive retrieval system, MEDLINE, in retrospective searching of MEDLARS files has been completed under the direction of the Office of Computer and Engineering Services. Data storage available with the new equipment is expected to be twice as fast as the IBM 360/50 that it replaces.

Other features of the 370/155 include its ability to access any information in mass storage in less than .072 seconds at a cost of about half as much (.0009 cents per month per character) as the former equipment for an equivalent amount of data. Internally, the new computer is up to four times faster depending on the type of problem to be solved. This speed is achieved in part by a novel two-level memory system that can add to or retrieve from its main storage of two million characters a group of 16 characters in two-millionths of a second.

Ten Keymatic Encoders have also been installed by OCES that transcribe directly from keyboard to magnetic tape, eliminating the paper-tape-to-magnetic-tape conversion required by the machines used formerly. The tapes are read by the computer and a listing for proof-reading is produced. *Index Medicus* and other NLM publications are now keyboarded on Keymatic equipment.

New Policies Set for Extramural Programs

The amended resource grant authority as established by the Medical Library Assistance Extension Act of 1970, and administered by NLM's Extramural Programs, attracted an unusually large number of resource grant applications. Four hundred and seventy-two applications were received in FY 1971, as compared with 594 received during the five-year period under the authority of the 1965 act. Of the new applications, 292 were for improvement grants and 170 were for project grants.

The NLM Board of Regents, at its November meeting, instituted the following policies concerning resource grants: (1) grant assistance to new health science libraries shall be for supplemental purposes, such as to obtain informational materials, and not to supplant appropriations for standard operating costs; (2) resource grant funds shall not be used for the purchase of terminal equipment related to MEDLINE or other on-line bibliographic searching projects; and (3) effective December 1, 1971, except for projects already funded, resource grant funds shall not be used to defray any of

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the expenses involved in free document delivery service, since this service is a fundamental activity of the Library's contract-supported Regional Medical Library programs.

Seven Regional Medical Library programs were supported by the contract mechanism authorized by the 1970 Extension Act. In 1972 the conversion of the Regional Medical Library Program to contract funding for interlibrary loan/document delivery services will be completed. The Regional Medical Library grant program will be implemented in the coming year; RML grants are awarded to support special projects (e.g., workshops, seminars, experimental or innovative programs).

Training opportunities for biomedical communication careers enabled 112 persons to receive support from the National Library of Medicine through the 17 programs active in 1971. As a result of recent Board action, emphasis will be placed on postgraduate training programs and doctoral degrees in biomedical communications rather than on master's degree programs in library science. The Regents' specific recommendations concerning NLM training grants were: (1) the existing programs which provide training for master's degrees for medical librarians should be phased out; (2) emphasis should be placed on internship programs; (3) programs should be initiated which afford continuing education opportunities; and (4) there should be emphasis on academic programs which are capable of providing the Ph.D.

The Extramural Programs' International Program has shown a substantial (64%) growth in numbers of active NLM Public Law 480 projects between December 1970 and December 1971. This increase is expected to continue, as is the diversification in coverage of biomedical fields in this international communications program.

New Staff Members Named

Mrs. Erika B. Love

Erika B. Love has been named Deputy Associate Director for Library Operations at NLM. Mrs. Love, most recently Director of Libraries at the Bowman Gray School of Medicine in Winston-Salem, N.C., succeeds Samuel T. Waters, who transferred to the National Agricultural Library.

Mrs. Love attended Heidelberg University, and received the B.A. (1950) and M.A.L.S. (1953) degrees from Indiana University. While medical librarian at the Larue D. Carter Memorial Hospital in Indianapolis, she completed the course work of a three-year psychiatric residency program. She later became Chief Librarian for both the Indiana Department of Mental Health and the Carter Hospital until 1967, when she moved to Winston-Salem.

Mrs. Love has had extensive teaching experience, participated in numerous workshops in medical librarianship, and served as consultant to many government and institutional groups.

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(Staff members, from Page 9)

Robert B. Mehnert has been named Special Assistant, Communications Media, at NLM. Mr. Mehnert comes to the Library from the National Institute of Mental Health, where he served as public information officer for various programs, including community mental health centers, alcoholism, and drug abuse. Most recently he was detailed to the staff of Dr. Jerome H. Jaffe, Director of the White House Special Action Office for Drug Abuse Prevention.

Robert B. Mehnert

Mr. Mehnert attended the University of Buffalo where he received the B.A. in 1963. On graduation, he joined the Federal Government as a management intern in the Department of Health, Education, and Welfare. He previously served on the NLM staff from 1965-8 as a public information specialist in the same office he now heads.

Dental Journal Endorses Communications Network

An important dental journal has predicted that the National Library of Medicine "is destined to become the research center in biomedical communications, to integrate audiovisual activities with other biomedical communications services, and to coordinate all health communications activities." The *Journal of Dental Education*, in an editorial, "The National Library of Medicine in Education," in its October 1971 issue also said that a biomedical communications network "under the aegis of NLM" will be established.

The editorial approved the recommendations of a recent report of the Association of American Medical Colleges proposing that NLM's Lister Hill Center be given support to create such a network for the efficient sharing of materials, ideas, and learning aids in a way that is easy for the user.

"The National Library of Medicine and the Lister Hill Center are the heart of a national biomedical communications program," the journal told its readers. "No component of a health science education program or of a health care delivery system will play a more important role in the welfare of the people of this country."

The editor of the publication is Dr. George W. Teuscher, Dean of the Northwestern University Dental School.

Israeli Medical Educator Reviews PL 480 Projects

Under an agreement with the *Israel Journal of Medical Sciences*, 45 publications have been produced, to date, according to Dr. Moshe Prywes, Professor of Medical Education at Hebrew University - Hadassah Medical School and Editor-in-Chief of the *Israel Journal of Medical Sciences (IJMS)*. Dr. Prywes addressed the fortieth meeting of NLM's Board of Regents on November 22, 1971, on "Dissemination of Medical Information and the Role of NLM in Israel." The focus of his talk was the development and progress, since 1966, of the Library's Public Law 480 Agreement with the *IJMS*, for a "Health Research Communications Program." A total of $1,277,221 equivalent in Israeli pounds has been obligated by the Library to fund this very

(Continued on Page 11)

(Israeli Medical Educator, from Page 10)

productive multicategorical program through June 1974.

Projects activated to date under this agreement, which is administered through the International Programs Division of NLM's Extramural Programs, include 31 critical reviews of biomedical literature, publication of the proceedings of 9 research conferences, 4 histories of medicine, 1 health sciences handbook, and a continuing program of indexing for MEDLARS.

Dr. Prywes, who was born in Poland in 1914, emigrated to Israel in 1951. A former Vice President of Hebrew University in Jerusalem, his many international activities have included membership on the W. H. O. Expert Advisory Panel on Medical Education, and service as a Consultant in Medical Education to the Rockefeller Foundation and Honorary Professor at the University of San Carlos in Guatemala. Dr. Prywes also holds the Chevalier de la Légion d'Honneur, awarded by the French Government.

New Literature Searches

Single copies of the bibliographies listed below are available (without charge) from the Literature Search Program, Reference Section, National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland 20014. They should be requested by number and title. Please do not use interlibrary loan forms.

A complete list of the Literature Searches presently available may be obtained from the above address. (This list also appears monthly within the introductory pages of *Index Medicus* and the *Monthly Bibliography of Medical Reviews.)*

L.S. No.	Title
71-20	Cannabis toxicology. September 1968 - July 1971. (355 citations)
71-21	Effects of hallucinogens on man. September 1968 - August 1971. (609 English language or English abstract citations)
71-22	Drug withdrawal symptoms in man. September 1968 - August 1971. (246 citations)
71-23	Psychotherapy in drug addiction or abuse. Supplement to Literature Search No. 2-69. September 1968 - October 1971. (157 citations)
71-24	Venezuelan equine encephalitis virus. January 1969 - October 1971. (85 citations)
71-25	Quality control, reliability and standards in clinical laboratories. January 1969 - October 1971. (273 English language citations)

Index-Catalogues Available

The Johnson Reprint Corporation has announced the availability of reprint editions of the *Index-Catalogue of the Library of the Surgeon-General's Office*, Series I - III. The *Index-Catalogue*, forerunner to *Index Medicus* and the *NLM Current Catalog*, began publication in 1880, and ended with the third volume of the fifth series published in 1961. For information about purchasing any or all of the forty-seven volumes comprising the first three series, write: Johnson Reprint Corporation, 111 Fifth Ave., New York, New York 10003.

The National Library of Medicine has a limited number of sets of the fourth and fifth series of the *Index-Catalogue*, and is making them available without charge to new or developing medical libraries. A limited number of individual volumes from the fourth and fifth series are also available without charge to fill in gaps or replace damaged volumes. For further information write to the NLM Office of Public Information and Publications Management.

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